OE quality you can trust

PIERBURG

Technology in focus

Secondary Air Systems

The **secondary air system** is key to **emission control** and **significantly reduces the emission of harmful gases**. By blowing oxygen-rich secondary air into the exhaust gas, a post-oxidation process occurs, **considerably reducing hydrocarbon (HC) and carbon monoxide (CO)** emissions.

Technology in Focus explains more...

Key Products

The secondary air system is made up of two key components – the **secondary air pump** and **secondary air valve**:

Secondary Air Pumps – The secondary air pump provides the fresh or 'secondary' air that enables the post-oxidation process. The pump is sealed off from the engine compartment in order to protect the motor from the corrosive effects of exhaust gas condensate.

Secondary Air Valves – The secondary air valve combines the function of a non-return and shut-off valve, preventing backflow of exhaust gases into the pump. It also prevents air from entering the exhaust manifold after the cold start phase.

Troubleshooting and Diagnostics

Points to note when servicing the secondary air system:

- **European on-board diagnostics (EOBD)** only checks the electrical connection of the pump, not its effect, therefore a fault may only be detected by **unusual whistling** or **varying idle speed** in the cold running phase
- Most faults with the pump are **caused by exhaust gas condensate** – as the valve is designed to prevent this, it also needs to be checked and replaced if necessary
- To check the valve, a **'finger test'** will reveal a fault – simply loosen the connecting hose and wipe through the opening with one finger. If there are deposits present, the **valve and pump should both be replaced.**

Range Coverage

The Pierburg range has **30 secondary air pumps** and **over 20 secondary air valves.**

Pierburg is **the leading European manufacturer** of secondary air systems and the range is available through your **local motor factor**.

Links

Click on the links below to find out more...

Part Info

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